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(54) Modified nucleic acid probes

(57) Oligonucleotide analogue arrays attached to solid substrates and methods related to the use thereof are provided. The oligonucleotide analogues hybridize to nucleic acids with either higher or lower specificity than corresponding unmodified oligonucleotides. Target

nucleic acids which comprise nucleotide analogues are bound to oligonucleotide and oligonucleotide analogue arrays.

3:3 DNA target on 30mer/20mer 5'-overhang probe
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15µM)

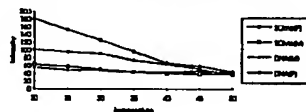
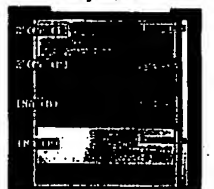


Figure 1A

RNA target oligonucleotide on 30mer/20mer 5'-overhang probe
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15µM)



Target DNA



Target RNA

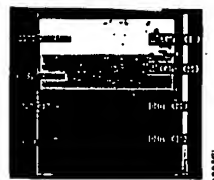


Figure 1B

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